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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/092,339	03/05/2002	Chang-Su Kim	INTV.015A	7696
4586	7590 11/15/2006		EXAMINER	
ROSENBERG, KLEIN & LEE			AN, SHAWN S	
	COTT CENTER DRIVE-SU CITY, MD 21043	ART UNIT	PAPER NUMBER	
	,		2621	
			DATE MAILED: 11/15/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/092,339	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shawn S. An	2621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period verailure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused the sound and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 Au	<u>ugust 2006</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL. 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.						
4a) Of the above claim(s) 10-25 is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-9 and 26</u> is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>05 March 2002</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa					
Paper No(s)/Mail Date <u>9/4; 10/15; and 10/22</u> . 6) Other:						

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DETAILED ACTION

Response to Remarks

1. Applicant's election with <u>partial</u> traverse of the Species VIII representing Fig. 14, which reads on claims 1-5, 7-9, and 26 as filed on 8/18/06, has been acknowledged. Therefore, claims 10-25 are now treated as being withdrawn claims.

As per Applicant's partial traversal, the traversal is on the grounds that the Figs. 14-16B are directed to the same invention and Figs. 15-16B are directed to flowcharts for logic applied to the blocks of Fig. 14. Thus, it is believed that claims 10-22 are simply directed to a process of decoding a video bitstream using the blocks of Fig. 14 and claims 23-25 are directed to the flowchart for a redundant MV which is present in an encoded video bitstream which is also part of the block set up of Fig. 14, and it is further believed that claims 1-5, 7-9, and 10-26 are all directed to the same essential Species as provided by the block figure of Fig. 14.

In response, the examination of all of the claims 10-25 being directed to <u>a</u> <u>process</u> of decoding a video bitstream encoded with redundant MVs as represented by Fig. 15 (Species IX) and <u>another process</u> of decoding a video bitstream encoded with redundant MVs, where the process uses a redundant MV as a backup to a standard MV in response to a high error estimate as represented by Figs. 16A-16B (Species X) in addition to the elected claims 1-5, 7-9, and 26 as represented by Fig. 14 (Species VIII) does indeed create undue extra burden on the Office by virtue of the at least three distinct (independent) Species (VIII, IX, X) as discussed in the last Office action. The prior art searching and a prosecution clearly would be a burden (more time spent on extra searching and prosecution) based on the three distinct Species (VIII, IX, X).

The clear burden is met by the three distinct Species (VIII, IX, X) and the distinct (independent) is met by the diverse elements between the drawings, wherein one embodiment is not deemed obvious over any other Species identified.

Therefore, a reasonable search for Species VIII does not necessarily cover (encompass) other Species (IX, X), which is the main reason for the restriction/election requirement.

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Moreover, the Examiner is following restriction/election guidelines to optimize a given (limited) search/examination time allocated for one Species/invention per application, regardless of the number of claims, thereby reducing undue pressure/burden (extra search and prosecution for additional Species) imposed upon the Examiner.

Lastly, since the non-elected dependent claim 6 depends from allowed independent claim 1, by virtue of dependency, the dependent claim 6 will be included as being an elected claim.

Therefore, requirement is now deemed proper and is therefore made FINAL.

Allowable Subject Matter

2. Claims 1-9 and 26 are allowed.

Claims 1-9 and 26 include novel features for a video decoder for decoding encoded video information comprising:

a DEMUX for parsing data from the video bitstream;

motion decoder for receiving motion information from the demultiplexer;

wherein the motion decoder is configured to be able to decode motion information for a standard motion vector, which is referenced to a previous frame, and further configured to be able to decode motion information from a redundant motion vector, which is referenced to a fame prior to the previous frame;

a texture decoder for receiving texture information from the DEMUX and decode a texture of the VOP; and

a composition circuit for combining multiple VOPs to generate a video frame.

The prior art of record fails to anticipate or make obvious the novel features.

Accordingly, if withdrawn claims are canceled, the application would be placed in condition for allowance.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure.

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A) Kim et al (7,003,033 B2), System and methods for encoding redundant motion vectors in compressed video bitstreams.

- B) Moon et al (6,307,885 B1), Device for and method of coding/decoding image information
- 4. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to *Shawn S. An* whose telephone number is 571-272-7324.
- 5. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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